



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B58/P2 BYPASS RATIO: 9.2
 UNIQUE ID NUMBER: 13GE166 PRESSURE RATIO (π_{00}): 37.5
 COMBUSTOR: TAPS
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 271.3

REGULATORY DATA **** DATA SUPERSEDED **** SEE FOLLOWING UID FOR REVISED DATA: **17GE171**

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	1.1	26.0	31.7	0.8
AS % OF ORIGINAL LIMIT	5.7	22.0	27.6	4.2
AS % OF CAEP/2 LIMIT (NO _x)			34.5	
AS % OF CAEP/4 LIMIT (NO _x)			38.7	
AS % OF CAEP/6 LIMIT (NO _x)			42.9	
AS % OF CAEP/8 LIMIT (NO _x)			48.7	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 - OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.023	0.02	0.18	20.43	0.0
CLIMB OUT	85	2.2	1.668	0.02	0.93	13.27	0.0
APPROACH	30	4.0	0.558	0.05	2.52	9.67	0.1
IDLE	7	26.0	0.203	0.58	16.39	4.66	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			756	197	5750	7426	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				0.7	21.2	27.4	0.6
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.1	0.0	0.1	0.3
RANGE (D _p /F ₀₀ in g/kN, or SN)				0.66-0.78	21.12-21.21	27.24-27.5	0.35-0.97

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT All POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT All POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.1-98.5
TEMPERATURE (K)	295.1-298.8
ABS HUMIDITY (kg/kg)	0.01189-0.01439

FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	15.4

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: General Electric Company
 TEST LOCATION: PTO, Ohio
 TEST DATES: 19/06/2012-21/06/2012

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

REMARKS

1. Ref. GE REPORT R2010AE907
2. Engine S/N 956-101/4
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

Compliance with Fuel Venting requirements: x ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)